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Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with General Assembly resolution 1721 B (XVI) by States launching objects into orbit or beyond

Note verbale dated 5 February 2014 from the Permanent Mission of the Plurinational State of Bolivia to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of the Plurinational State of Bolivia to the United Nations (Vienna) presents its compliments to the Secretary-General of the United Nations and has the honour to transmit, in accordance with paragraph 1 of General Assembly resolution 1721 B (XVI) of 20 December 1961, information concerning the launch of satellite Túpac Katari (see annex).

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Annex

Registration data on an object launched into outer space by the Plurinational State of Bolivia

Túpac Katari

Information provided in conformity with General Assembly resolution 1721B (XVI)

Name of space object:	Túpac Katari
National designator/registration number:	TKSAT-1
State of registry:	Bolivia
Other launching States:	China
Date and territory or location of launch	
Date of launch:	20 December 2013, 1242 hours UTC/GMT-4
Territory or location of launch:	XSLC Satellite Launch Centre, Sichuan, Xichang, China
Basic orbital parameters	
Geostationary orbital position:	87.2 degrees West
Inclination:	0.05 degrees
Longitudinal tolerance:	± 0.05 degrees
General function of space object:	Communications satellite
Date of decay/re-entry/deorbit:	20 December 2028 (expected date)

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator:	Bolivian Space Agency
Launch vehicle:	Long March 3BE (LM 3BE)
Website:	www.abe.bo

Technical details for Túpac Katari

Orbital position:	87.2 degrees West
Number of transponders:	30
Date of launch:	20 December 2013, 1242 hours UTC/GMT-4
Entry into service:	March 2014
Estimated useful life:	15 years

Type:	Communications satellite
Satellite platform:	DFH-4
Satellite dimensions:	2,360 mm x 2,100 mm x 3,600 mm
Orbit type:	Geostationary (GEO)
GEO orbit altitude:	36,000 kilometres
Stabilization mode:	Triaxial
Precision maintenance:	± 0.05 degrees West/East ± 0.05 degrees North/South
Precision of antenna positioning:	< 0.1 degrees
Weight of satellite:	5,100 kilograms
Launch vehicle:	LM 3BE

Transponder bands:

Band	Number of transponders	Bandwidth per transponder (MHz)	Useful bandwidth (MHz)
C	2	28	56
Ku (broadcasting)	4	36	144
Ku (communications)	20	36	720
Ku (addressable)	2	36	72
Ka	2	120	240

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Committee on the Peaceful
Uses of Outer Space

Information furnished in conformity with General Assembly resolution 1721 B (XVI) by States launching objects into orbit or beyond

Note verbale dated 15 July 2014 from the Permanent Mission of Luxembourg to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of Luxembourg to the United Nations (Vienna) has the honour to transmit, in accordance with paragraph 1 of General Assembly resolution 1721 B (XVI) of 20 December 1961, information concerning objects launched into Earth orbit or beyond by Luxembourg as at 11 June 2014 (see annex).

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Annex

List of Luxembourg space objects*

1.	Committee on Space Research international designator:	1988-109B
	Name of space object:	ASTRA 1A
	Launch date:	11 December 1988
	Launch site:	Kourou, French Guiana
	Launcher:	Ariane
	Decommission date:	10 December 2004
	Owner of object:	Société Européenne des Satellites (SES ASTRA)
	Orbital characteristics:	The satellite is in a graveyard orbit, at a perigee of 400 km above the geostationary orbit
2.	Committee on Space Research international designator:	1991-015A
	Name of space object:	ASTRA 1B
	Launch date:	2 March 1991
	Launch site:	Kourou, French Guiana
	Decommission date:	12 July 2006
	Launcher:	Ariane
	Owner of object:	SES ASTRA
	Orbital characteristics:	The satellite is in a graveyard orbit, at a perigee of 500 km above the geostationary orbit
3.	Committee on Space Research international designator:	1993-031A
	Name of space object:	ASTRA 1C
	Launch date:	12 May 1993
	Launch site:	Kourou, French Guiana
	Launcher:	Ariane
	Owner of object:	SES ASTRA
	Orbital characteristics:	
	Nodal period:	1,435.8-1,436.4 minutes

* The registration data are reproduced in the form in which they were received.

	Inclination:	6.6 degrees on 11 June 2014 (inclined orbit)
	Apogee:	35,820 km
	Perigee:	35,752 km
	Longitude:	2.0 degrees East since 23 October 2008
	General purpose of object:	Encrypted and unencrypted transmission of radio, television and multimedia data services and of occasional-use services
4.	Committee on Space Research international designator:	1994-070A
	Name of space object:	ASTRA 1D
	Launch date:	31 October 1994
	Launch site:	Kourou, French Guiana
	Launcher:	Ariane
	Owner of object:	SES ASTRA
	Orbital characteristics:	
	Nodal period:	1,435.8-1,436.4 minutes
	Maximum inclination:	In inclined orbit since 22 October 2007
	Apogee:	35,820 km
	Perigee:	35,752 km
	Longitude:	The satellite is being repositioned to 67.6 degrees West (will arrive on 19 June 2014)
	General purpose of object:	Encrypted and unencrypted transmission of radio, television and multimedia data services and of occasional-use services
5.	Committee on Space Research international designator:	1995-055A
	Name of space object:	ASTRA 1E
	Launch date:	19 October 1995
	Launch site:	Kourou, French Guiana
	Launcher:	Ariane
	Owner of object:	SES ASTRA
	Orbital characteristics:	
	Nodal period:	1,435.8-1,436.4 minutes
	Maximum inclination:	In inclined orbit since May 2010
	Apogee:	35,820 km
	Perigee:	35,752 km

	Longitude:	The satellite has been repositioned to 31.20 degrees East
	General purpose of object:	Encrypted and unencrypted transmission of radio, television and multimedia data services and of occasional-use services
6.	Committee on Space Research international designator:	1996-021A
	Name of space object:	ASTRA 1F
	Launch date:	8 April 1996
	Launch site:	Baikonur, Kazakhstan
	Launcher:	Proton
	Owner of object:	SES ASTRA
	Orbital characteristics:	
	Nodal period:	1,435.8-1,436.4 minutes
	Maximum inclination:	0.10 degrees
	Apogee:	35,820 km
	Perigee:	35,752 km
	Longitude:	54.65 degrees East since 18 October 2013
	General purpose of object:	Encrypted and unencrypted transmission of radio, television and multimedia data services
7.	Committee on Space Research international designator:	1997-076A
	Name of space object:	ASTRA 1G
	Launch date:	2 December 1997
	Launch site:	Baikonur, Kazakhstan
	Launcher:	Proton
	Owner of object:	SES ASTRA
	Orbital characteristics:	
	Nodal period:	1,435.8-1,436.4 minutes
	Maximum inclination:	In inclined orbit since May 2014
	Apogee:	35,820 km
	Perigee:	35,752 km
	Longitude:	31.5 degrees East since 10 July 2010
	General purpose of object:	Encrypted and unencrypted transmission of radio, television and multimedia data services

8.	Committee on Space Research international designator:	1998-050A
	Name of space object:	ASTRA 2A
	Launch date:	30 August 1998
	Launch site:	Baikonur, Kazakhstan
	Launcher:	Proton
	Owner of object:	SES ASTRA
	Orbital characteristics:	
	Nodal period:	1,435.8-1,436.4 minutes
	Maximum inclination:	0.10 degrees
	Apogee:	35,820 km
	Perigee:	35,752 km
	Longitude:	28.2 degrees East
	General purpose of object:	Encrypted and unencrypted transmission of radio, television and multimedia data services
9.	Committee on Space Research international designator:	1999-033A
	Name of space object:	ASTRA 1H
	Launch date:	18 June 1999
	Launch site:	Baikonur, Kazakhstan
	Launcher:	Proton
	Owner of object:	SES ASTRA
	Orbital characteristics:	
	Nodal period:	1,435.8-1,436.4 minutes
	Maximum inclination:	In inclined orbit since May 2012
	Apogee:	35,820 km
	Perigee:	35,752 km
	Longitude:	The satellite is being repositioned to 67.6 degrees West (will arrive on 20 August 2014)
	General purpose of object:	Encrypted and unencrypted transmission of radio, television and multimedia data services; two-way satellite interactive services
10.	Committee on Space Research international designator:	2000-054A
	Name of space object:	ASTRA 2B

Launch date:	14 September 2000
Launch site:	Kourou, French Guiana
Launcher:	Ariane 5
Owner of object:	SES ASTRA
Orbital characteristics:	
Nodal period:	1,435.8-1,436.4 minutes
Maximum inclination:	0.10 degrees
Apogee:	35,820 km
Perigee:	35,752 km
Longitude:	31.33 degrees East since 8 February 2014
General purpose of object:	Encrypted and unencrypted transmission of radio, television and multimedia data services

11. Committee on Space Research international designator: 2000-081A

Name of space object:	ASTRA 2D
Launch date:	20 December 2000
Launch site:	Kourou, French Guiana
Launcher:	Ariane 5
Owner of object:	SES ASTRA
Orbital characteristics:	
Nodal period:	1,435.8-1,436.4 minutes
Maximum inclination:	In inclined orbit since 10 April 2012
Apogee:	35,820 km
Perigee:	35,752 km
Longitude:	28.0 degrees East
General purpose of object:	Encrypted and unencrypted transmission of radio, television and multimedia data services

12. Committee on Space Research international designator: 2001-025A

Name of space object:	ASTRA 2C
Launch date:	16 June 2001
Launch site:	Baikonur, Kazakhstan
Launcher:	Proton
Owner of object:	SES ASTRA

	Orbital characteristics:	
	Nodal period:	1,435.8-1,436.4 minutes
	Maximum inclination:	0.12 degrees
	Apogee:	35,820 km
	Perigee:	35,752 km
	Longitude:	28.2 degrees East since 30 April 2014
	General purpose of object:	Encrypted and unencrypted transmission of radio, television and multimedia data services
13.	Committee on Space Research international designator:	2002-015B
	Name of space object:	ASTRA 3A
	Launch date:	29 March 2002
	Launch site:	Kourou, French Guiana
	Launcher:	Ariane 4
	Owner of object:	SES ASTRA
	Orbital characteristics:	
	Nodal period:	1,435.8-1,436.4 minutes
	Maximum inclination:	In inclined orbit from 31 May 2012
	Apogee:	35,820 km
	Perigee:	35,752 km
	Longitude:	183.15 degrees East since 20 December 2013
	General purpose of object:	Encrypted and unencrypted transmission of radio, television and multimedia data services; occasional-use services; very small aperture terminal (VSAT) services
14.	Committee on Space Research international designator:	2006-012A
	Name of space object:	ASTRA 1KR
	Launch date:	20 April 2006
	Launch site:	Cape Canaveral, United States of America
	Launcher:	Atlas V
	Owner of object:	SES ASTRA (through its subsidiary SES ASTRA 1KR)
	Orbital characteristics:	
	Nodal period:	1,435.8-1,436.4 minutes
	Maximum inclination:	0.12 degrees

Apogee:	35,820 km
Perigee:	35,752 km
Longitude:	19.2 degrees East
General purpose of object:	Encrypted and unencrypted transmission of radio, television and multimedia data services

15. Committee on Space Research international designator: 2007-016A

Name of space object:	ASTRA 1L
Launch date:	4 May 2007
Launch site:	Kourou, French Guiana
Launcher:	Ariane 5
Owner of object:	SES ASTRA (through its subsidiary SES ASTRA 1L)
Orbital characteristics:	
Nodal period:	1,435.8-1,436.4 minutes
Maximum inclination:	0.12 degrees
Apogee:	35,820 km
Perigee:	35,752 km
Longitude:	19.2 degrees East
General purpose of object:	Encrypted and unencrypted transmission of radio, television, multimedia data and broadband services

16. Committee on Space Research international designator: 2008-057A

Name of space object:	ASTRA 1M
Launch date:	5 November 2008
Launch site:	Baikonur, Kazakhstan
Launcher:	Proton-M/Breeze-M
Owner of object:	SES ASTRA (through its subsidiary SES ASTRA 1M)
Orbital characteristics:	
Nodal period:	1,435.8-1,436.4 minutes
Maximum inclination:	0.12 degrees
Apogee:	35,820 km
Perigee:	35,752 km
Longitude:	19.2 degrees East

	General purpose of object:	Encrypted and unencrypted transmission of radio, television and multimedia data services
17.	Committee on Space Research international designator:	2010-021A
	Name of space object:	ASTRA 3B
	Launch date:	21 May 2010
	Launch site:	Kourou, French Guiana
	Launcher:	Ariane 5
	Owner of object:	SES ASTRA (through its subsidiary SES 3B)
	Orbital characteristics:	
	Nodal period:	1,435.8-1,436.4 minutes
	Maximum inclination:	0.10 degrees
	Apogee:	35,820 km
	Perigee:	35,752 km
	Longitude:	23.5 degrees East since 10 June 2010
	General purpose of object:	Encrypted and unencrypted transmission of radio, television, multimedia data, VSAT and broadband services
18.	Committee on Space Research international designator:	2011-041A
	Name of space object:	ASTRA 1N
	Launch date:	6 August 2011
	Launch site:	Kourou, French Guiana
	Launcher:	Ariane 5
	Owner of object:	SES ASTRA (through its subsidiary SES 1N)
	Orbital characteristics:	
	Nodal period:	1,435.8-1,436.4 minutes
	Maximum inclination:	0.10 degrees
	Apogee:	35,820 km
	Perigee:	35,752 km
	Longitude:	19.2 degrees East since 28 February 2014
	General purpose of object:	Encrypted and unencrypted transmission of radio, television, multimedia data, VSAT and broadband services

19.	Committee on Space Research international designator:	2011-058C
	Name of space object:	Vesselsat 1
	Launch date:	12 October 2011
	Launch site:	Sriharikota, India
	Launcher:	PSLV-CA
	Owner of object:	LuxSpace
	Orbital characteristics:	
	Nodal period:	102.10 minutes
	Maximum inclination:	20.00 degrees
	Apogee:	867.00 km
	Perigee:	847.00 km
	General purpose of object:	Automatic Identification System (AIS) data collection
20.	Committee on Space Research international designator:	2012-051A
	Name of space object:	ASTRA 2F
	Launch date:	28 September 2012
	Launch site:	Kourou, French Guiana
	Launcher:	Ariane 5
	Owner of object:	SES ASTRA (through its subsidiary SES ASTRA 2F)
	Orbital characteristics:	
	Nodal period:	1,435.8-1,436.4 minutes
	Maximum inclination:	0.10 degrees
	Apogee:	35,820 km
	Perigee:	35,752 km
	Longitude:	28.2 degrees East
	General purpose of object:	Encrypted and unencrypted transmission of radio, television, multimedia data, VSAT and broadband services
21.	Committee on Space Research international designator:	2012-001B
	Name of space object:	Vesselsat 2
	Launch date:	9 January 2012
	Launch site:	Taiyuan LC-9, China
	Launcher:	Chang Zheng 4B Y26

Owner of object:	LuxSpace
Orbital characteristics:	
Nodal period:	94.30 minutes
Maximum inclination:	97.50 degrees
Apogee:	490.00 km
Perigee:	479.00 km
General purpose of object:	Automatic Identification System (AIS) data collection

22. Committee on Space Research international designator: 2013-056A

Name of space object:	ASTRA 2E
Launch date:	29 September 2013
Launch site:	Baikonur, Kazakhstan
Launcher:	Proton-M/Breeze-M
Owner of object:	SES ASTRA (through its subsidiary SES ASTRA 2E)
Orbital characteristics:	
Nodal period:	1,435.8-1,436.4 minutes
Maximum inclination:	0.10 degrees
Apogee:	35,820 km
Perigee:	35,752 km
Longitude:	28.2 degrees East
General purpose of object:	Encrypted and unencrypted transmission of radio, television, multimedia data, VSAT and broadband services

23. Committee on Space Research international designator: 2014-011B

Name of space object:	ASTRA 5B
Launch date:	22 March 2014
Launch site:	Kourou, French Guiana
Launcher:	Ariane 5
Owner of object:	SES ASTRA (through its subsidiary SES ASTRA 5B)
Orbital characteristics:	
Nodal period:	1,435.8-1,436.4 minutes
Maximum inclination:	0.10 degrees
Apogee:	35,820 km

Perigee:	35,752 km
Longitude:	31.55 degrees East
General purpose of object:	Encrypted and unencrypted transmission of radio, television, multimedia data, VSAT and broadband services